

STRONTIUM BENZOATE IN FIREWORK INDUSTRY



Introduction

Strontium Benzoate is white powder. The brilliant, deep red is created by strontium salts like strontium benzoate ($C_{14}H_{10}O_4Sr$) and strontium carbonate ($SrCO_3$). These metal salts do not naturally occur as a geological mineral, but the strontium is usually found in celestite.

Applications

- 1 Strontium Benzoate impart a red color to fireworks
- 2 Strontium benzoate can also be used as a stabilizer for other fireworks effects.
- 3 Strontium benzoate acts as both a colorant (the strontium part) and an oxidizer.
- 4 It is also include in emergency flares, road flares and flare guns.

Benefits

- 1 Its environmentally benign and recyclable catalysts that meet the standard of green chemistry for a very important and well established organic reaction.
- 2 Strontium compounds are also important for stabilizing fireworks mixtures.

Ingredient Composition In Fireworks

Red star #1 Preparation :

Ingredient Name	Composition In %
Potassium perchlorate	66
Red gum.	13
Lampblack	2
Strontium benzoate	12
Polyvinyl chloride	2
Soluble Glutinous Rice Starch	5



Specifications

Test	Specification	Test Method
Appearance	Form: Powder Colour: White	Visual
Purity By Strontium Content (As such basis)	> 98.0 %	By AAS
Moisture Content	Max 1.0 %	Oven Drying at 105°C
Calcium Content	Max 0.1 %	By AAS
Barium Content	Max 0.2 %	By AAS

Product FDA Status

It is not registered in food contact applications by US FDA.



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